

(PCT Article 36 and Rule 70)

REC'D 0 3 FEB 2005

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Applio P104			ent's file reference	FOR FURTHER A	CTION		ation of Transmittal of Internation Examination Report (Form PC	
International application No.		International filing date	(day/mon	th/year)	Priority date (day/month/ye	əar)		
PCT/GB 03/05293			293	05.12.2003			10.12.2002	
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1.			national preliminary examination and is transmitted to the				nternational Preliminary Exa	ımining
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This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which been amended and are the basis for this report and/or sheets containing rectifications made before this (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						s which have this Authority		
	Thes	se an	nexes consist of a total of	of 3 sheets.				•
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			·					
3.	This	repo	rt contains indications re	elating to the following i	tems:			
	_	-						
	1	Ø	Basis of the opinion					
]] ;;;		Priority	oninian with regard to	novoltu i	invontivo ete	n and industrial applicability	
	III ⊠ Non-establishment of opinion with r			•	noverty,	nivernive Ste	p and industrial applicability	
IV Lack of unity of invention V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial ap citations and explanations supporting such statement						inventive sten or industrial	applicability	
						арриоавину,		
	VI		Certain documents cit	ed				
	VII		Certain defects in the	international applicatio	n			
	VIII		Certain observations	on the international app	olication	•		
Date	of sub	missi	on of the demand		Date o	f completion o	of this report	
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International application No.

PCT/GB 03/05293

 Basis of the repe 	ort	201	rep	the r	of	asis	I. B
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages	n, Pages							
	1-8		as originally filed							
	Cla	Claims, Numbers								
	1-13	3	received on 29.11.2004 with letter of 24.11.2004							
	Dra	Drawings, Sheets								
	1/4-	4/4	as originally filed							
	With regard to the language , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.									
	These elements were available or furnished to this Authority in the following language: , which is:									
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23:1	(b)).						
		the language of pub	lication of the international application (under Rule 48.3(b)).							
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (ບໍ່ກ 3).	der						
3.			eotide and/or amino acid sequence disclosed in the international application, t examination was carried out on the basis of the sequence listing:	he						
		□ contained in the international application in written form.								
	filed together with the international application in computer readable form.									
	☐ furnished subsequently to this Authority in written form.									
	☐ furnished subsequently to this Authority in computer readable form.									
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.									
	The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.									
4.	The	amendments have r	esulted in the cancellation of:							
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sheet conta	ining s	such amendr	ments must be referred to under item 1 ar	nd annexed to this				
6.	Add	litional observations, if necessa	ıry:							
111.	Nor	n-establishment of opinion w	ith reg	jard to nove	elty, inventive step and industrial appli	cability				
1.	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been examined in respect of:									
		the entire international applica								
	⋈	claims Nos. 12,13								
		because:								
	the said international application, or the said claims Nos. relate to the following subject matter which not require an international preliminary examination (specify):									
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so uncerthat no meaningful opinion could be formed (specify):									
		see separate sheet	·	•						
	the claims, or said claims Nos. are so inadequately supported by the description that no meaningfu could be formed.									
		no international search report	has be	en establish	ed for the said claims Nos.	. :				
2.	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:									
		the written form has not been furnished or does not comply with the Standard.								
		the computer readable form has not been furnished or does not comply with the Standard.								
٧.		soned statement under Artic tions and explanations supp			ard to novelty, inventive step or industr ment	rial applicability;				
1.	Stat	tement								
	Nov	velty (N)	Yes: No:	Claims Claims	4-7,11 1-3,8-10					
	Inve	entive step (IS)	Yes: No:	Claims Claims	,1-11					
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-11					

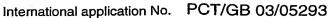
2. Citations and explanations

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see separate sheet



Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 12 and 13 contain references to the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document: 1.

D1: WO 9 934 625

2. Lack of novelty, Art. 33(2) PCT

2.1 Claim 1:

The present application does not meet the criteria of Article 33(1) PCT because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT.

The document D1 is regarded as being the closest prior art to the subject-matter of claim 1, and discloses (the references in parentheses applying to this document):

Apparatus for preparing a signal, which has been received at a wireless communications device, to be processed by a receiver which will attempt to recover information conveyed by the signal (page 1, lines 4-8), the apparatus comprising filtering means (page 5, lines 24-27 and fig. 4 (25) and fig. 3b (32, 34)) for filtering the signal in a digital form having samples appearing at a sample rate and adaptation means (page 13, lines 21-23 and fig. 4 (28)) for adjusting the sample rate (page 6, lines 19-28 and page 13, line 29-page 14, line 5), wherein the filtering means is capable of filtering the signal in a first manner which is required when the receiver is of a first type and in a second manner (page 6, line 29-page 7, line 7 and page 9, lines 3-11) which is required when the receiver is of the second type, the adaptation means is arranged to perform adjustments to the sample rate when the receiver is of the second type and not the first type (fig. 4 (28) and page 17, lines 24-32) and the adjustments comprise altering the sample

EXAMINATION REPORT - SEPARATE SHEET

rate before the signal is filtered (page 6, lines 19-28 and fig. 1 and fig. 4) to permit the filtering means to perform filtering in the second manner and altering the sample rate after the signal has been filtered to provide the signal with a sample rate required by the second type of receiver (page 21, lines 1-7 and fig. 3b (35)).

2.2 Claim 8

The subject-matter of independent Claim 8 corresponds in terms of method steps to the subject-matter of Claim 1. The objections raised in respect to this letter claim, therefore also apply to independent claim 8.

- 2.3 Dependent claims 2-7 and 9-11 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, the reasons being as an inventive step. follows:
- **Claims 2, 9**: see D1 (page 17, lines 24-32)
- Claims 3, 10: see D1 (page 21, lines 8-22 and fig. 3c)
- Claims 4, 5, 11:

These claims contain features, each of which is merely one of several straightforward possibilities from which the skilled person would select, in accordance with circumstances, without the exercise of inventive skill, see D1 (page 1, lines 4-19 and lines 9-15).

Claims 6.7: It is normal practice to use processing stages for signals in mobile telephones.

Certain observations on the international application (Article 6 PCT)

The expression "comprise altering the sample rate before...second type of receiver" in claim 1 (lines 9-12) is unclear since its relate to a method of using the apparatus rather than clearly defining the apparatus in terms of its technical features.

Certain defects on the international application

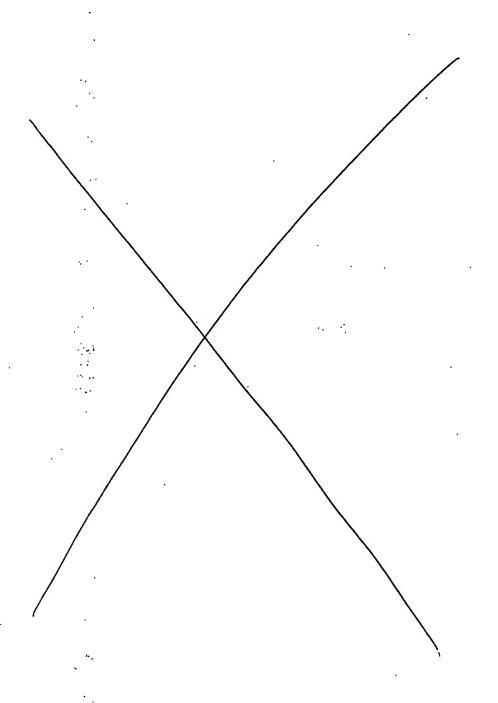
The features of the claims are not provided with references signs placed in parentheses, Rule 6.2(b) PCT.



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EXAMINATION REPORT - SEPARATE SHEET







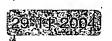
CLAIMS

- 1. Apparatus for preparing a signal, which has been received at a wireless communications device, to be processed by a receiver which will attempt to recover information conveyed by the signal, the apparatus comprising filtering means for filtering the signal in a digital form having samples appearing at a sample rate and adaption means for adjusting the sample rate, wherein the filtering means is capable of filtering the signal in a first manner which is required when the receiver is of a first type and in a second manner which is required when the receiver is of a second type, the adaption means is arranged to perform adjustments to the sample rate when the receiver is of the second and not the first type and the adjustments comprise altering the sample rate before the signal is filtered to permit the filtering means to perform filtering in the second manner and altering the sample rate after the signal has been filtered to provide the signal with a sample rate required by the second type of receiver.
- 2. Apparatus according to claim 1, wherein the adaption means is arranged to change to said sample rate by a fractional factor.
- 3. Apparatus according to claim 1 or 2, wherein the filtering means comprises an FIR filter with adjustable tap coefficients which can be adjusted to allow the filter to perform filtering in the first manner and in the second manner.
- 4. Apparatus according to claim 1, 2 or 3, wherein the filtering means is arranged to correct errors introduced by the adaption means.
- 5. Apparatus according to any one of claims 1 to 4, wherein the first type of receiver is a receiver operating according to a 3G telecommunications standard and comprising a rake receiver for operating on the signal and the second type of receiver is a receiver operating according to a 2G telecommunications standard and comprising an equaliser for operating on the signal.





- 6. A participant for a wireless communications network, the participant comprising the apparatus of any one of claims 1 to 5.
- 7. A mixed signal section for a participant for a wireless communications network, the mixed signal section comprising the apparatus of any one of claims 1 to 5.
- 8. A method of preparing a signal, which has been received at a wireless-communications device, to be processed by a receiver which will attempt to recover information conveyed by the signal, the method comprising filtering the signal in a digital form having samples appearing at a sample rate using a filtering means capable of filtering the signal in a first manner when the receiver is of a first type and in a second manner when the receiver is of a second type and making sample rate adjustments to the signal when filtering is to be performed in the second manner but not when filtering is to be performed in the first manner, wherein said adjustments comprise adjusting the sample rate before the signal is filtered to permit the filtering means to perform filtering in the second manner and adjusting the sample rate after the signal has been filtered to provide the signal with a sample rate required by the second type of receiver.
- 9. A method according to claim 8, wherein said adjustments are arranged to change to said sample rate by a fractional factor.
- 10. A method according to claim 8 or 9, wherein the filtering means comprises an FIR filter with adjustable tap coefficients which can be adjusted to allow the filter to perform filtering in the first manner and in the second manner.
- 11. A method according to claim 8, 9 or 10, wherein the first type of receiver is a receiver operating according to a 3G telecommunications standard and comprising a rake receiver for operating on the signal and the second type of receiver is a receiver operating according to a 2G telecommunications standard and comprising an equaliser for operating on the signal.





- 12. A method of conditioning received communications signals, the method being substantially as hereinbefore described with reference to Figures 1 to 3.
- 13. Apparatus for conditioning received communications signals, the apparatus being substantially as hereinbefore described with reference to Figures 1 to 3.